



## **Dr. James V. Candy**

**Lawrence Livermore National Laboratory /  
University of California, Santa Barbara**

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### **Building 482 Auditorium**

James V. Candy is the Chief Scientist for Engineering and former Director of the Center for Advanced Signal & Image Sciences at the University of California, Lawrence Livermore National Laboratory. Dr. Candy received a commission in the USAF in 1967 and was a Systems Engineer/Test Director from 1967 to 1971. He has been a researcher at the Lawrence Livermore National Laboratory since 1976, holding various positions including that of Project Engineer for Signal Processing and Thrust Area Leader for Signal and Control Engineering.

Dr. Candy received his B.S.E.E. degree from the University of Cincinnati and his M.S.E. and Ph.D. degrees in Electrical Engineering from the University of Florida, Gainesville. He is a registered Control System Engineer in the state of California. He has been an Adjunct Professor at San Francisco State University, the University of Santa Clara, and the UC Berkeley Extension, teaching graduate courses in signal and image processing. He is an Adjunct Full-Professor at the University of California, Santa Barbara.

Dr. Candy is a Fellow of the IEEE and a Fellow of the Acoustical Society of America (ASA). He was recently elected as a Visiting Fellow at the University of Cambridge (Clare Hall College). He is a member of Eta Kappa Nu and Phi Kappa Phi honorary societies. He was elected as a Distinguished Alumnus by the University of Cincinnati. Dr. Candy received the IEEE Distinguished Technical Achievement Award for the "development of model-based signal processing in ocean acoustics." Dr. Candy was also recently selected as an IEEE Distinguished Lecturer for oceanic signal processing as well as presenting an IEEE tutorial on advanced signal processing available through their video website courses. He was recently nominated for the prestigious Edward Teller Fellowship at Lawrence Livermore National Laboratory.

Dr. Candy has published over 200 journal articles, book chapters, and technical reports, as well as written three texts in signal processing: "Signal Processing: the Model-Based Approach," (McGraw-Hill, 1986), "Signal Processing: the Modern Approach," (McGraw-Hill, 1988), and "Model-Based Signal Processing," (Wiley/IEEE Press, 2006). He has presented a variety of short courses and tutorials sponsored by the IEEE and ASA in Applied Signal Processing, Spectral Estimation, Advanced Digital Signal Processing, Applied Model-Based Signal Processing, Applied Acoustical Signal Processing, and Model-Based Ocean Acoustic Signal Processing for the IEEE Oceanic Engineering Society. He has also presented short courses in Applied Model-Based Signal Processing for the SPIE Optical Society. He is currently the IEEE Chair of the Technical Committee on "Sonar Signal and Image Processing" and was the Chair of the ASA Technical Committee on "Signal Processing in Acoustics" as well as being an Associate Editor for Signal Processing of ASA (on-line).

Dr. Candy's research interests include Bayesian+ estimation, identification, spatial estimation, signal and image processing, array signal processing, nonlinear signal processing, tomography, sonar/radar processing and biomedical applications.

